BRUHAT BENGALURU MAHANAGARA PALIKE

Name of the Work :- Maintainance of Road, drains and foothpath work in New Ward No-10 Byatarayanapura for the year 2023-24.

			Detailed Estimate						Estimate Cost Rs.		5,500,000.00
Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount	GST	Total Amount
1	Supply of Unskilled (Heavy work),Unskilled (Light Work),Sweeper,Billover, Blue Printer, Chief Mazdoor, **Labours** The wages given below as per Department of Labour, GoK circular vide KAE 83 LMW 2022 dated 13-01-2023 wef 01-04-2023 are listed.for emergency works. SR 2023-24 [P. No-A-50, SL. No-IV, Vol-1, Zone-1].										
	(24 Days x 12 months x 8Labours)					**2304.00**	**643.40**	**Day**	**1,482,393.60**	0	**1,482,393.60**
	Basic Rate=Rs.643.40										
	GST 0										
2	Supply of Skilled Mason or Brick layer Class-1 The wages given below as per Department of Labour, GoK circular vide KAE 83 LMW 2022 dated 13-01-2023 wef 01-04-2023 are listed. for emergency works. SR 2023-24 [P. No-A-49, SL. No-II-3, Vol -1, Zone-1]										
	(24 Days x 12 months x 1 Mason)					**288.00**	**676.67**	**Day**	**194,880.96**	0	**194,880.96**
	Basic Rate=Rs.676.67										
	GST 0										
3	Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of Buildings & bridges and such simillar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. In all kinds of soils Depth upto 1.5 m [PWD SR 2023-24/ Volume-1/ Chapter-1/P.NO-05/ Item no:-1.4.1]										
		200	25.00	0.60	0.45	1350.00					
						1350.00	**266.20**	**Cum**	**359,370.00**	**64,686.60**	**424,056.60**
	Basic Rate	**242.00**									
	Area Weightage @ 10%	**24.20**									
	Total	**266.20**									
4	**Providing and laying 100mm thick pre-cast cover slabs** over drains &Rain pit of width not exceeding 800 mm using M20 concrete reinforcedwith Micro Alloyed High carbon steel with 3mm - 3ply wired steel @ 2.00 kg/m2, slabs jointed in CM 1:3 proportion and nicely finished Includingproviding holes in the Cover slabs wherever necessary for easy drainageof surface water including of labour, materials, scaffolding, usage of machinery, curing, lead and lift charges etc, Complete.SR 2023-24 (Pg no-176, SI no-17.12, Vol 2)										
		40	10.00	0.90		360.00					
						360.00	**1020.80**	**Sqm**	**367,488.00**	**66,147.84**	**433,635.84**
	Basic Rate	**928.00**									
	Area Weightage @ 10%	**92.80**									
	Total	**1020.80**									
5	Supplying and fixing Pre cast reinforced concrete slab 23cm thick including cost of reinforcement as per design and drawing courses cost of all materials, labour complete as per specifications. Specification										
		15		**1.5**		**22.50**	**5037.00**	**Sqm**	**113,332.50**	**20,399.85**	**133,732.35**
	Data Rate	**5037.00**									
6	**Providing and laying 60mm thick factory made cement concrete paverblock** of approved shape and colour of M -30 grade made of C&D wasteby block making machine with vibratory compaction laid in requiredpattern and including over 50mm thick compacted bed of coarse sand,filling the joints with fine sand etc. all complete as per the direction ofEngineer-in-charge.SR 2023-24(pg,no-63, Sl. no 9.25, vol -2)										
		100	2.00	1.20		240.00					
						240.00	**880.00**	**Sqm**	**211,200.00**	**38,016.00**	**249,216.00**
	Basic Rate	**800.00**									
	Area Weightage @ 10%	**80.00**									
	Total	**880.00**									
7	**Lead for disposal of earth shall be payable at Carriage rates** (Lead & Lift) by mechanical means including loading and unloading up to 15kms.										
	Desilting of drains / Silt or Soil deposits on the Road/Footpath / Debris from various sources in ward jurisdiction					1350.00					
						1350.00	**346.50**	**Cum**	**467,775.00**		**467,775.00**
	Unload ing, Loading & Carriage of MaterialsLoading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum. (Tipper 5.5 m3)[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-5/ Item no:-1.1 a]										
	Basic Rate	**135.00**									
	Add AW 10%	13.50									
	Total	**148.50**									

	Cost of Haulage Excluding Loading and Unloading,Taking output 10 t load and 10 km = 100 t.km[PWD SR 2023-24/ Volume-3/ Chapter-1/P.NO-3/ Item no:-1.4 iii A]										
	Basic Rate	**12.00**									
	15KM LEAD [12*15=180]	180.00									
	Add AW 10%	18.00									
	Total	**198.00**									
	Total A+B	**346.50**									
8	**Providing and constructing un-reinforced plain cement concrete pavement,** thickness as per design, over a preparedsub base, with 43 grade cement or any other type as perClause 1501.2.2 M20 (Grade), coarse and fine aggregatesconforming to IS:383:2016, maximum size of coarseaggregate not exceeding 25 mm, mixed in a concrete mixerof not less than 0.2 cum capacity and appropriate weighbatcher using approved mix design, laid in approved fixedside formwork (steel channel, laying and fixing of 125 micronthick polythene film, wedges, steel plates including levellingthe formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate.(P.No.148, Sl.No.16.27, Vol.3)SR 2023-24										
		30	2.00	2.00	0.15	18.00					
					Total	**18.00**	**7,011.40**	**Cum**	**126,205.20**	**22,716.94**	**148,922.14**
	Basic Rate	**6374.00**									
	Area Weightage @ 10%	**637.40**									
	Total	**7011.40**									
9	Supply of Material component **Bitumen (emulsion) Rapid Setting RS1*** for all road works. [P. No-A-10, SL. No-23, Vol-3] SR 2023-24										
						2.00	**47,520.00**	**t**	**95,040.00**	**17,107.20**	**112,147.20**
	Basic Rate	**43200.00**									
	Area Weightage @ 10%	**4320.00**									
	Total	**47520.00**									
10	Supply of **Hydraulic Excavator of 0.9 m3 bucket** on hire basis including operator, fuel and other incidental charges etc., complete [Page No: A-44, Sl No.49, Vol 1] SR 2023-24										
	(3 days x 5 hours x 12 months)					**180.00**	**1,485.00**	**Hr**	**267,300.00**		**267,300.00**
	Basic Rate	**1350.00**									
	Area Weightage @ 10%	**135.00**									
	Total	**1485.00**									
11	Supply of **Tipper-5.5 m3** on hire basis including operator, fuel and other incidental charges etc., complete [Page No: A-47, Sl No.126, Vol 1] SR 2023-24										
	(5 days x 8 hours x 12 months)					**480.00**	**1,553.20**	**Hr**	**745,536.00**		**745,536.00**
	Basic Rate	**1412.00**									
	Area Weightage @ 10%	**141.20**									
	Total	**1553.20**									
12	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density[PWD SR 2023-24/ Volume-3/ Chapter-4/P.NO-26/ Item no:-4.17].										
						150.00	**2,814.90**	**Cum**	**422,235.00**	**76,002.30**	**498,237.30**
	Basic Rate	**2559.00**									
	Area Weightage @ 10%	**255.90**									
	Total	**2814.90**									
13	Supply of Material component **M-Sand - Fine** for all road works. [P. No-A-40, SL. No- 64, Vol-1] SR 2023-24										
						40.00	**1,623.60**	**Cum**	**64,944.00**	**11,689.92**	**76,633.92**
	Basic Rate	**1476.00**									
	Area Weightage @ 10%	**147.60**									
	Total	**1623.60**									
13	Supply of Material component **Granular Aggregates of 12mm downsize** for all road works. [P. No-A-38, SL. No- 3, Vol-1] SR 2023-24										
						40.00	**1,466.30**	**Cum**	**58,652.00**	**10,557.36**	**69,209.36**
	Basic Rate	**1333.00**									
	Area Weightage @ 10%	**133.30**									
	Total	**1466.30**									
15	Supply of Material component **Granular Aggregates of 40mm downsize** for all road works. [P. No-A-38, SL. No- 7, Vol-1] SR 2023-24										
						30.00	**1,309.00**	**Cum**	**39,270.00**	**7,068.60**	**46,338.60**
	Basic Rate	**1190.00**									
	Area Weightage @ 10%	**119.00**									
	Total	**1309.00**									

16	Supply of Material component **Cement (OPC/PPC/PSC)** for all road works. [P. No-A-39, SL. No- 31, Vol-1] SR 2023-24										
						300.00	322.30	Bag	96,690.00	17,404.20	114,094.20
	Basic Rate	293.00									
	Area Weightage @ 10%	29.30									
	Total	322.30									
17	**Provision for tool - Equipments (Masonry Trowel, Head Pan, Digging Bar, Hammer, Tamper, Hand Gloves, Rubber Boots, etc.,)**							LS	35,000.00		35,000.00
						Sub Total Amount Rs.					5,499,109.07
						Miscellaneous and unforeseen charges etc.L.S					890.93
						TOTAL AMOUNT					5,500,000.00

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on PWD 2023-2024.

Assistant Engineer
Ward No.10

Assistant Executive Engineer
Kodigehalli Sub Division

Executive Engineer
Byatarayanapura Division

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

ADMINISTRATIVE SANCTION
Accorded for Rs. 55.00 Lakhs only
Head of A/c. P-3726
Ref No. 42/23-24 Date 14/12/23
AEE(BTP) BBMP

Technical Sanction
Accorded For Rs. 55.00 Lakhs
Head of A/C P3726
CER NO : 47 Dt: 20/11/23